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- ☞ L1: (0) ("7110731") or ("7107023").PN.
- ☞ L2: (89888) "455"/\$.ccls. or 340/902-905 or 340/539 or 370/320 or 3
- ☞ L3: (4423) 2 and (railroad or railway or train or locomotive or subw
- ☞ L4: (3895) 3 and control
- ☞ L5: (426) 4 and "center frequency"
- ☞ L6: (64) 5 and (adjust\$4 near5 "center frequency")
- ☞ L7: (32) 6 and modulator
- ☞ L8: (32) 7 and transmitter
- ☞ L9: (1) 8 and "dual mode"
- ☞ L10: (2) 8 and (alert\$3 near8 (railroad or railway or train or locomot
- ☞ L11: (6) ("5635921") or ("5602868") or ("5162763") or ("6188891")
- ☞ L12: (3) 11 and modulator
- ☞ L13: (0) 12 and (adjust\$4 near5 "center frequency")
- ☞ L14: (2) 12 and transmitter
- ☞ L15: (23) 7 and transmitter
- ☞ L16: (7) 15 and alert\$3
- ☞ L17: (861) 455/127.4 455/91 455/103 340/539 340/902-905 370/320 3
- ☞ L18: (17) 17 and "center frequency".clm.
- ☞ L19: (9) 18 and modulator.clm.
- ☞ L20: (0) 19 and transmitter.clm.
- ☞ L21: (1) 19 and (adjust\$4 near5 "center frequency").clm.

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United States

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Derome et al. (41 Pub. Date: Aug. 26, 2004)

(04) DUAL-MODE TRANSMITTER

(37) U.S. CL. 036124; 455/91

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(21) Appl. No.: 09/705,523

(22) Filed: Dec. 11, 2003

Related U.S. Application Data

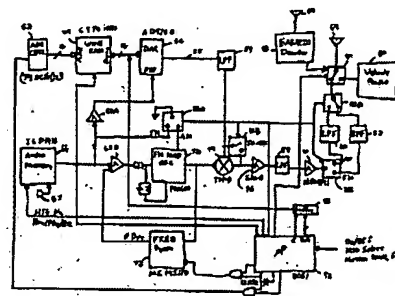
(43) Continued-in-part of application No. 08/941,763,
filed on Aug. 25, 1998, now Pat. No. 6,370,362

Publication Classification

(01) Int. Cl. H04B 1/64

ABSTRACT

An emergency and non-emergency transmitter receivable by land-based land stations in a mobile vehicle, comprising a first digital processor by continuously providing a plurality of selectively spaced carrier bursts (emergency coverage communications) to the individual channels of the band to be covered and selectively providing impulsive modulation when used for the AM broadcast band, and a second digital processor providing an FM modulated signal, which when combined with the signal from the first digital processor, covers various portions of the FM broadcast band to provide complete coverage thereof. A plurality of signals are generated in a portion of a selected band and modulated, according to the selected band mode, with a pre-stored and selectable voice alert message. An EAS-RDS decoder monitors for emergency communications and decodes the dual-mode transmitter if an EAS-RDS transmission is detected so that either within the coverage area of the dual-mode transmitter will receive the EAS-RDS transmission.



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	U	1	Document ID	Issue Date	Pages	Title	Current O	Current	Ret	Inventor
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20040166819 A1	20040826		Dual-mode transmitter	455/127.4	455/91		Derome, George E. et al.

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The block diagram illustrates the electrical control system for the alarm. Key components and their interconnections include:

- Control Transmitter (C.T. Unit):** A dashed box containing a unit with terminals 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Low-Fuel Receiver:** Receives signals from the Control Transmitter (terminals 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) and outputs signals to the Alarm System (terminals 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).
- Alarm System:** Receives signals from the Low-Fuel Receiver (terminals 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) and outputs signals to the Control Transmitter (terminals 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).
- Relays and Switches:** The diagram includes several relays (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) and switches (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) that manage the flow of current between the transmitter, receiver, and alarm system.


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- L9: (1) 8 and "dual mode"
- L10: (2) 8 and (alert\$3 near8 (railroad or railway or train or locomotive or subway))
- L11: (6) ("5635921") or ("5602868") or ("5162763") or ("6188891") or ("5889475") or
- L12: (3) 11 and modulator
- L13: (0) 12 and (adjust\$4 near5 "center frequency")
- L14: (2) 12 and transmitter
- L15: (23) 7 and transmitter
- L16: (7) 15 and alert\$3

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Default operator: **OR** highlight all hit terms initially

15 and alert\$3

	U	1	Document ID	Issue Date	Pages	Title	Current O	Current	Ret	Inventor
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6501393 B1	20021231	38	System and method for using impulse radio technology to tr	340/993	340/988; 340/991		Richards; James L. et al.
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5943606 A	19990824	21	Determination of frequency offsets in communication syst	455/12.1	342/358; 455/427;		Krenun; Steven A. et al.

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L15: (23) 7 and transmitter

L16: (7) 15 and alert\$3

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12 and transmitter

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	U	1	Document ID	Issue Date	Pages	Title	Current O	Current	Ret	Inventor	
1	<input type="checkbox"/>	<input type="checkbox"/>	US 5635921 A	19970603	20	Emergency vehicle radio transmission system	340/902	340/2.1; 340/825.3		Maxwell; Douglas G. et al.	F
2	<input type="checkbox"/>	<input type="checkbox"/>	US 5602868 A	19970211	7	Multiple-modulation communication system	375/219	329/300; 329/304;		Wilson; Alan L.	F

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